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## **TC 3700 Inventor Search Program**

See attached inventor searches for applications and/or patents to help resolve questions of overlapping subject matter. These searches are provided as an initial examination aid: examiners should perform updated or expanded PALM or EAST inventors searches as appropriate.

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**Serial Number:**    10/791300

**1.) See attached printout of inventors listed in  
PALM**

**2.) See attached EAST Inventor Search  
Printout shows Inventor search terms**

|                         |              |          |    |   |          |                      |                           |
|-------------------------|--------------|----------|----|---|----------|----------------------|---------------------------|
| US<br>20060016127<br>A1 | US-<br>PGPUB | 20060126 | 33 | Superabrasive<br>particle synthesis<br>with controlled<br>placement of<br>crystalline seeds                                   | 51/293   |                      | Sung, Chien-Min           |
| US<br>20050275330<br>A1 | US-<br>PGPUB | 20051215 |    | Diamond-like<br>carbon<br>thermoelectric<br>conversion<br>devices and<br>methods for the<br>use and<br>manufacture<br>thereof | 313/311  |                      | Sung, Chien-Min           |
| US<br>20050250250<br>A1 | US-<br>PGPUB | 20051110 |    | Diamond<br>composite heat<br>spreader having<br>thermal<br>conductivity<br>gradients and<br>associated<br>methods             | 438/122  |                      | Sung, Chien-Min           |
| US<br>20050241239<br>A1 | US-<br>PGPUB | 20051103 |    | Abrasive<br>composite tools<br>having<br>compositional<br>gradients and<br>associated<br>methods                              | 51/308   |                      | Sung, Chien-Min           |
| US<br>20050238835<br>A1 | US-<br>PGPUB | 20051027 |    | Graphite<br>composite<br>thermal sealants<br>and associated<br>methods  | 428/40.1 |                      | Sung, Chien-Min           |
| US<br>20050230155<br>A1 | US-<br>PGPUB | 20051020 |    | Molten braze-<br>coated<br>superabrasive<br>particles and<br>associated<br>methods  | 175/375  | 51/295               | Sung, Chien-Min           |
| US<br>20050227590<br>A1 | US-<br>PGPUB | 20051013 |    | Fixed abrasive<br>tools and<br>associated<br>methods  | 451/41   | 451/526              | Sung, Chien-Min           |
| US<br>20050220829       | US-<br>PGPUB | 20051006 | 8  | Healthcare and<br>cosmetic  | 424/401  | 424/125;<br>433/217. | Sung, Chien-Min et<br>al. |

|                   |          |          |  |  |         |                                |                 |
|-------------------|----------|----------|--|--|---------|--------------------------------|-----------------|
| A1                |          |          |  | compositions containing nanodiamond  |         | 1                              |                 |
| US 20050189647 A1 | US-PGPUB | 20050901 |  | Carbonaceous composite heat spreader and associated methods                            | 257/720 | 257/E23 .11; 257/E23 .112      | Sung, Chien-Min |
| US 20050153010 A1 | US-PGPUB | 20050714 |  | High pressure split die and associated methods   | 425/330 |                                | Sung, Chien-Min |
| US 20050151464 A1 | US-PGPUB | 20050714 |  | Amorphous diamond materials and associated methods for the use and manufacture thereof | 313/503 | 313/502; 313/506               | Sung, Chien-Min |
| US 20050150444 A1 | US-PGPUB | 20050714 |  | High pressure crystal growth apparatuses and associated methods                        | 117/11  |                                | Sung, Chien-Min |
| US 20050136667 A1 | US-PGPUB | 20050623 |  | Superabrasive particle synthesis with controlled placement of crystalline seeds        | 438/689 |                                | Sung, Chien-Min |
| US 20050122189 A1 | US-PGPUB | 20050609 |  | Cast diamond tools and formation thereof by chemical vapor deposition                  | 333/193 | 310/313 R                      | Sung, Chien-Min |
| US 20050108948 A1 | US-PGPUB | 20050526 |  | Molten braze-coated superabrasive particles and associated methods                     | 51/307  | 51/293; 51/295; 51/308; 51/309 | Sung, Chien-Min |
| US 20050095959 A1 | US-PGPUB | 20050505 |  | Contoured CMP pad dresser and associated methods                                       | 451/56  | 451/444                        | Sung, Chien-Min |
| US                | US-      | 20050127 |  | Nanodiamond  | 407/119 | 51/307                         | Sung, Chien-Min |

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|-------------------------|--------------|----------|--|---|---------|--|-----------------|
| 20050019114<br>A1       | PGPUB        |          |  | PCD and<br>methods of<br>forming  |         |  |                 |
| US<br>20040256624<br>A1 | US-<br>PGPUB | 20041223 |  | Semiconductor-<br>on-diamond<br>devices and<br>methods of<br>forming  | 257/77  |  | Sung, Chien-Min |
| US<br>20040253766<br>A1 | US-<br>PGPUB | 20041216 |  | Diamond<br>composite heat<br>spreader and<br>associated<br>methods  | 438/122 | 257/E23<br>.11;<br>257/E23<br>.112;<br>438/125 | Sung, Chien-Min |
| US<br>20040235405<br>A1 | US-<br>PGPUB | 20041125 |  | Cast diamond<br>tools and<br>formation thereof<br>by chemical<br>vapor deposition                                 | 451/443 |  | Sung, Chien-Min |
| US<br>20040206008<br>A1 | US-<br>PGPUB | 20041021 |  | SiCN<br>compositions and<br>methods   | 51/307  | 427/249.<br>1;<br>427/255.<br>394              | Sung, Chien-Min |
| US<br>20040194689<br>A1 | US-<br>PGPUB | 20041007 |  | High pressure<br>superabrasive<br>particle synthesis  | 117/63  | 117/101;<br>117/902                            | Sung, Chien-Min |
| US<br>20040175875<br>A1 | US-<br>PGPUB | 20040909 |  | Diamond<br>composite heat<br>spreader having<br>thermal<br>conductivity<br>gradients and<br>associated<br>methods | 438/197 | 257/E23<br>.11;<br>257/E23<br>.112             | Sung, Chien-Min |
| US<br>20040112359<br>A1 | US-<br>PGPUB | 20040617 |  | Brazed diamond<br>tools and<br>methods for<br>making the same   | 125/15  |  | Sung, Chien-Min |
| US<br>20040107648<br>A1 | US-<br>PGPUB | 20040610 |  | Superabrasive<br>wire saw and<br>associated<br>methods of<br>manufacture  | 51/295  | 51/293;<br>51/298;<br>51/307                   | Sung, Chien-Min |
| US<br>20040070071<br>A1 | US-<br>PGPUB | 20040415 |  | Diamond<br>composite heat<br>spreader and<br>associated   | 257/712 | 257/E23<br>.11;<br>257/E23<br>.112             | Sung, Chien-Min |

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|-------------------------|--------------|----------|--|---|----------|------------------------------------|-----------------------------|
|                         |              |          |  | methods   |          |                                    |                             |
| US<br>20040070070<br>A1 | US-<br>PGPUB | 20040415 |  | Carbonaceous<br>composite heat<br>spreader and<br>associated<br>methods                                     | 257/706  | 257/E23<br>.11;<br>257/E23<br>.112 | Sung, Chien-Min             |
| US<br>20040066127<br>A1 | US-<br>PGPUB | 20040408 |  | Amorphous<br>diamond<br>materials and<br>associated<br>methods for the<br>use and<br>manufacture<br>thereof | 313/311  |                                    | Sung, Chien-Min             |
| US<br>20040065711<br>A1 | US-<br>PGPUB | 20040408 |  | Compression<br>bonding tools and<br>associated<br>bonding methods   | 228/4.5  | 228/180.<br>5                      | Sung, Chien-Min             |
| US<br>20040031438<br>A1 | US-<br>PGPUB | 20040219 |  | Cast diamond<br>products and<br>formation thereof<br>by chemical<br>vapor deposition                        | 117/68   |                                    | Sung, Chien-Min             |
| US<br>20030168957<br>A1 | US-<br>PGPUB | 20030911 |  | Amorphous<br>diamond<br>materials and<br>associated<br>methods for the<br>use and<br>manufacture<br>thereof | 313/311  |                                    | Sung, Chien-Min             |
| US<br>20030118501<br>A1 | US-<br>PGPUB | 20030626 |  | Surface treatment<br>method for<br>preparing water-<br>resistant<br>aluminum nitride<br>powder              | 423/412  |                                    | Chung, Shyan-Lung<br>et al. |
| US<br>20030109204<br>A1 | US-<br>PGPUB | 20030612 |  | Fixed abrasive<br>CMP pad dresser<br>and associated<br>methods  | 451/56   |                                    | Sung, Chien-Min             |
| US<br>20030084894<br>A1 | US-<br>PGPUB | 20030508 |  | Brazed diamond<br>tools and<br>methods for<br>making the same   | 125/12   | 451/533;<br>451/534                | Sung, Chien-Min             |
| US                      | US-          | 20030130 |  | Wheeled skate   | 280/11.1 |                                    | Sung, Chien-Min             |

|                         |              |          |  |   |                |                                     |                           |
|-------------------------|--------------|----------|--|---|----------------|-------------------------------------|---------------------------|
| 20030020244<br>A1       | PGPUB        |          |  | device  | 9              |                                     |                           |
| US<br>20030012966<br>A1 | US-<br>PGPUB | 20030116 |  | SiCN<br>compositions and<br>methods   | 428/446        | 428/408                             | Sung, Chien-Min           |
| US<br>20020173234<br>A1 | US-<br>PGPUB | 20021121 |  | Diamond grid<br>CMP pad dresser   | 451/21         | 125/11.1<br>;<br>451/444;<br>451/56 | Sung, Chien-Min et<br>al. |
| US<br>20020094379<br>A1 | US-<br>PGPUB | 20020718 |  | Cast diamond<br>tools and<br>formation thereof<br>by chemical<br>vapor deposition                                 | 427/249.<br>8  |                                     | Sung, Chien-Min           |
| US<br>20020077054<br>A1 | US-<br>PGPUB | 20020620 |  | Brazed diamond<br>tools and<br>methods for<br>making  | 451/540        |                                     | Sung, Chien-Min           |
| US<br>20020058114<br>A1 | US-<br>PGPUB | 20020516 |  | Colored bottle<br>blank and<br>forming mold set<br>with<br>manufacturing<br>process thereof                       | 428/35.7       | 264/328.<br>1;<br>425/525           | Sung, Chien Min           |
| US<br>20020004426<br>A1 | US-<br>PGPUB | 20020110 |  | Diamond-like<br>carbon coated<br>golf club head   | 473/324        |                                     | Lin, Frank S. et al.      |
| US<br>20010042966<br>A1 | US-<br>PGPUB | 20011122 |  | Wheeled skate<br>device   | 280/11.2<br>22 | 280/11.2<br>04                      | Sung, Chien-Min           |
| US 6987318<br>B2        | USPAT        | 20060117 |  | Diamond<br>composite heat<br>spreader having<br>thermal<br>conductivity<br>gradients and<br>associated<br>methods | 257/720        |                                     | Sung; Chien-Min           |
| US 6984888<br>B2        | USPAT        | 20060110 |  | Carbonaceous<br>composite heat<br>spreader and<br>associated<br>methods   | 257/720        | 257/713                             | Sung; Chien-Min           |
| US 6969313<br>B2        | USPAT        | 20051129 |  | Cast diamond<br>tools and<br>formation thereof  | 451/540        |                                     | Sung; Chien-Min           |

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|------------------|-------|----------|--|---|----------------|--|---------------------------|
|                  |       |          |  | by chemical<br>vapor deposition   |                |  |                           |
| US 6949873<br>B2 | USPAT | 20050927 |  | Amorphous<br>diamond<br>materials and<br>associated<br>methods for the<br>use and<br>manufacture<br>thereof | 313/311        | 313/309;<br>313/310;<br>313/336;<br>313/346<br>R;<br>313/351                                   | Sung; Chien-Min           |
| US 6915796<br>B2 | USPAT | 20050712 |  | Superabrasive<br>wire saw and<br>associated<br>methods of<br>manufacture                                    | 125/21         | 125/12;<br>125/30.0<br>2;<br>125/36;<br>125/39;<br>451/296;<br>451/526;<br>451/532;<br>451/534 | Sung; Chien-Min           |
| US 6884155<br>B2 | USPAT | 20050426 |  | Diamond grid<br>CMP pad dresser   | 451/443        | 451/285;<br>451/56   | Sung; Chien-Min et<br>al. |
| US 6874795<br>B2 | USPAT | 20050405 |  | Wheeled skate<br>device   | 280/11.2<br>23 | 280/11.2<br>6;<br>280/11.2<br>8;<br>280/843  | Sung; Chien-Min           |
| US 6840424<br>B2 | USPAT | 20050111 |  | Compression<br>bonding tools and<br>associated<br>bonding methods   | 228/4.5        | 228/1.1;<br>228/180.<br>5;<br>228/44.7   | Sung; Chien-Min           |
| US 6830598<br>B1 | USPAT | 20041214 |  | Molten braze<br>coated<br>superabrasive<br>particles and<br>associated<br>methods                           | 51/307         | 51/295;<br>51/298;<br>51/308;<br>51/309  | Sung; Chien-Min           |
| US 6814130<br>B2 | USPAT | 20041109 |  | Methods of<br>making diamond<br>tools using<br>reverse casting of<br>chemical vapor<br>deposition           | 164/74         | 264/29.1<br>;<br>427/135;<br>427/249.<br>8   | Sung; Chien-Min           |
| US 6806629<br>B2 | USPAT | 20041019 |  | Amorphous<br>diamond<br>materials and<br>associated   | 313/310        | 313/309;<br>313/326;<br>313/336;<br>313/346  | Sung; Chien-Min           |

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|               |       |          |  | methods for the use and manufacture thereof  |                | R;<br>313/351;<br>313/495;<br>427/249.<br>7   |                        |
| US 6679243 B2 | USPAT | 20040120 |  | Brazed diamond tools and methods for making  | 125/12         | 451/527;<br>451/529;<br>451/533;<br>451/544;<br>51/297  | Sung; Chien-Min        |
| US 6659161 B1 | USPAT | 20031209 |  | Molding process for making diamond tools   | 164/74         | 264/29.1<br>;<br>427/135;<br>427/249.<br>8  | Sung; Chien-Min        |
| US 6632477 B2 | USPAT | 20031014 |  | SiCN compositions and methods  | 427/249.<br>15 | 427/255.<br>27;<br>427/255.<br>28;<br>427/255.<br>393;<br>427/255.<br>394;<br>427/255.<br>4;<br>427/301 | Sung; Chien-Min        |
| US 6368198 B1 | USPAT | 20020409 |  | Diamond grid CMP pad dresser   | 451/443        | 451/285;<br>451/41  | Sung; Chien-Min et al. |
| US 6286498 B1 | USPAT | 20010911 |  | Metal bond diamond tools that contain uniform or patterned distribution of diamond grits and method of manufacture thereof | 125/12         | 451/527;<br>451/529;<br>451/533;<br>451/544;<br>51/295;<br>51/297                                       | Sung; Chien-Min        |
| US 6193770 B1 | USPAT | 20010227 |  | Brazed diamond tools by infiltration   | 51/295         | 451/540;<br>451/542;<br>51/293;<br>51/307   | Sung; Chien-Min        |
| US 6159286 A  | USPAT | 20001212 |  | Process for controlling diamond nucleation during  | 117/79         | 117/929   | Sung; Chien-Min        |



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|-----------------|-------|----------|--|--|---------|--|------------------------|
|                 |       |          |  | diamond synthesis  |         |  |                        |
| US 6039641<br>A | USPAT | 20000321 |  | Brazed diamond tools by infiltration   | 451/540 | 125/22;<br>451/542;<br>51/295;<br>51/307                       | Sung; Chien-Min        |
| US 5151107<br>A | USPAT | 19920929 |  | Cemented and cemented/sintered superabrasive polycrystalline bodies and methods of manufacture thereof | 51/295  | 51/293;<br>51/308;<br>51/309                                   | Cho; Hyun S. et al.    |
| US 5116568<br>A | USPAT | 19920526 |  | Method for low pressure bonding of PCD bodies  | 419/11  | 419/17;<br>419/45;<br>419/68                                   | Sung; Chien-Min et al. |
| US 5096465<br>A | USPAT | 19920317 |  | Diamond metal composite cutter and method for making same  | 51/295  | 51/293;<br>51/298;<br>51/308;<br>51/309                        | Chen; Sy-Hwa et al.    |
| US 5062865<br>A | USPAT | 19911105 |  | Chemically bonded superabrasive grit   | 51/295  | 427/217;<br>51/309   | Chen; Sy-Hwa et al.    |
| US 5030276<br>A | USPAT | 19910709 |  | Low pressure bonding of PCD bodies and method  | 75/237  | 175/433;<br>419/11;<br>51/307;<br>75/239;<br>75/240;<br>75/243 | Sung; Chien-Min et al. |
| US 5024680<br>A | USPAT | 19910618 |  | Multiple metal coated superabrasive grit and methods for their manufacture                             | 51/295  | 51/293;<br>51/298;<br>51/309                                   | Chen; Sy-Hwa et al.    |
| US 5011514<br>A | USPAT | 19910430 |  | Cemented and cemented/sintered superabrasive polycrystalline bodies and methods of manufacture thereof | 51/295  | 51/293;<br>51/308;<br>51/309                                   | Cho; Hyun S. et al.    |
| US 4943488<br>A | USPAT | 19900724 |  | Low pressure bonding of PCD bodies and   | 428/552 | 125/30.0<br>1;<br>175/430;                                     | Sung; Chien-Min et al. |

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|  |  |  |  | method for drill<br>bits and the like |  | 175/434;<br>408/27;<br>428/408;<br>428/627;<br>51/295;<br>75/239;<br>75/240 |  |
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